

Appl. No. 09/813,424

Reply to Examiner's Action dated 11/02/2005

IN THE CLAIMS:

1. (currently amended) A controller for use with a transceiver that transmits and receives data in a wireless communications network, comprising:

a sensing system configured to sense at least one characteristic associated with at least two channels of said wireless communications network and configured to receive system configuration parameters associated with said data, wherein said system configuration parameters are entered by a user of said wireless communications network and at least one of said system configuration parameters is a data rate, a symbol rate or a modulation scheme;

a modification system configured to update channel information in a channel information table associated with said at least two channels based on said at least one characteristic and said system configuration parameters; and

a selection system configured to select one of said at least two channels in accordance with said channel information allowing said controller to modify a transmission rate of said data over said wireless communications network.

Claim 2 (canceled)

3. (original) The controller as recited in Claim 1 wherein said wireless communications network is a wireless local area network.

4. (original) The controller as recited in Claim 1 wherein said modification system is configured to update channel information in a channel information table for each of said at least two channels.

5. (original) The controller as recited in Claim 1 wherein said sensing system is configured to periodically sense said at least one characteristic associated with said at least two channels.

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6. (original) The controller as recited in Claim 1 wherein said at least two channels are within a radio frequency band.

7. (original) The controller as recited in Claim 1 wherein said controller transmits a signal on said selected one of said at least two channels using a direct sequence spread spectrum technology.

8. (currently amended) A method of controlling a signal transmission in a wireless communications network, comprising:

sensing at least one characteristic associated with at least two channels of said wireless communications network;

receiving system configuration parameters from a user of said wireless communications network, wherein said system configuration parameters are associated with said signal transmission and at least one of said system configuration parameters is a data rate, a symbol rate or a modulation scheme;

updating channel information in a channel information table associated with said at least two channels based on said at least one characteristic and said system configuration parameters; and

selecting one of said at least two channels in accordance with said channel information to allow modifying a transmission rate of said signal over said wireless communications network.

9. (previously presented) The method recited in Claim 8 wherein said receiving includes receiving said system configuration parameters from a user of said wireless communications network and at least one of said system configuration parameters is selected from the group consisting of:

a data rate,

a symbol rate, and

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a modulation scheme.

10. (original) The method recited in Claim 8 wherein said wireless communications network is a wireless local area network.

11. (original) The method recited in Claim 8 wherein said updating includes updating channel information in a channel information table for each of said at least two channels.

12. (original) The method recited in Claim 8 wherein said sensing includes periodically sensing said at least one characteristic associated with said at least two channels.

13. (original) The method recited in Claim 8 wherein said sensing includes sensing at least one characteristic associated with at least two channels within a radio frequency band.

14. (original) The method recited in Claim 8 wherein said controlling further comprises transmitting a signal on said selected one of said at least two channels using a direct sequence spread spectrum technology.

15. (currently amended) A wireless communications device for use in a wireless communications network, comprising:

an antenna;

a radio frequency filter;

a power source;

a transceiver that transmits and receives wireless signals having a controller, the controller, comprising:

a sensing system that senses at least one characteristic associated with at least two channels of said wireless communications network and receives system configuration parameters

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associated with said data, wherein said system configuration parameters are entered by a user of said wireless communications network and at least one of said system configuration parameters is a data rate, a symbol rate or a modulation scheme,

a modification system that updates channel information in a channel information table associated with said at least two channels based on said at least one characteristic and said system configuration parameters, and

a selection system that selects one of said at least two channels in accordance with said updated channel information allowing said controller to modify a transmission rate of said wireless signals over said wireless communications network.

Claim 16 (canceled)

17. (original) The wireless communications device recited in Claim 15 wherein said wireless communications network is a wireless local area network.

18. (original) The wireless communications device recited in Claim 15 wherein said modification system updates channel information in a channel information table for each of said at least two channels.

19. (original) The wireless communications device recited in Claim 15 wherein said sensing system periodically senses said at least one characteristic associated with said at least two channels.

20. (original) The wireless communications device recited in Claim 15 wherein said at least two channels are within a radio frequency band.

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21. (original) The wireless communications device recited in Claim 15 wherein said controller transmits a signal on said selected one of said at least two channels using a direct sequence spread spectrum technology.

Claims 22-32 (canceled)